

Active Recombinant Human Interleukin 36 Receptor Antagonist

Cat. No. IL36RN-5660H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL36RN protein was expressed in E. coli. Val2-Asp155.
Species	Human
Source	E.coli
Protein Length	2-155 a.a.
Description	IL36RN is a member of the IL-1 family of proteins. IL-1 family members include IL-1 β , IL-1 α , IL-1ra, IL-18 and IL-1F5-F10. All family members show a 12 β -strand, β -trefoil configuration, and all family members are believed to have arisen from a common ancestral gene that underwent multiple duplications. The human IL-36Ra/IL-1F5 gene is in closest proximity to the gene for IL-1ra and is likely a relatively recent duplication of the IL-1ra gene.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Val2
Molecular Weight	17 kDa
Activity	Measured by its ability to inhibit IL-36 α , IL-36 β or IL-36 γ -induced IL-8 secretion by human preadipocytes. The ED50 for this effect is typically 0.25-1.25 μ g/mL in the presence of 20 ng/mL of recombinant human IL-

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	36β. Measured by its bindingability in a functional ELISA. Immobilized recombinant human IL-36Ra at 1μg/mL (100 μL/well) can bind recombinant human IL-1 Rrp2 Fc Chimera with alinear range of 0.15-5 μg/mL.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	65 kDa,reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 μg/mLin sterile PBS
Storage	Use amannual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied.1 month, 2 to 8°C under sterile conditions after reconstitution. 3months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	IL36RN interleukin 36 receptorantagonist [Homo sapiens]
Official Symbol	IL36RN
Synonyms	IL36RN; interleukin36 receptor antagonist; FIL1; FIL1D; IL1F5; IL1L1; PSORP; IL1HY1;IL1RP3; IL36RA; FIL1 (DELTA); interleukin-36 receptor antagonist protein; IL-1rahomolog 1; interleukin-1 HY1; IL-1 related protein 3; interleukin-1-likeprotein 1; family of interleukin 1-delta; IL1F5 (Canonical product IL-1F5a);interleukin 1 family, member 5 (delta); interleukin-1 receptor antagonisthomolog 1; IL-1F5 (IL-1HY1, FIL1-delta, IL-1RP3, IL-1L1, IL-1-delta)
Gene ID	26525

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mRNA Refseq	NM_012275
Protein Refseq	NP_036407
MIM	605507
UniProt ID	Q9UBH0
Chromosome Location	2q14
Function	cytokine activity;interleukin-1 receptor antagonist activity

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